

# *Expand Public Safety Operability - Interoperability*



**Mr. Kevin Rogers**  
Manager  
Wireless Systems Bureau  
Arizona DPS



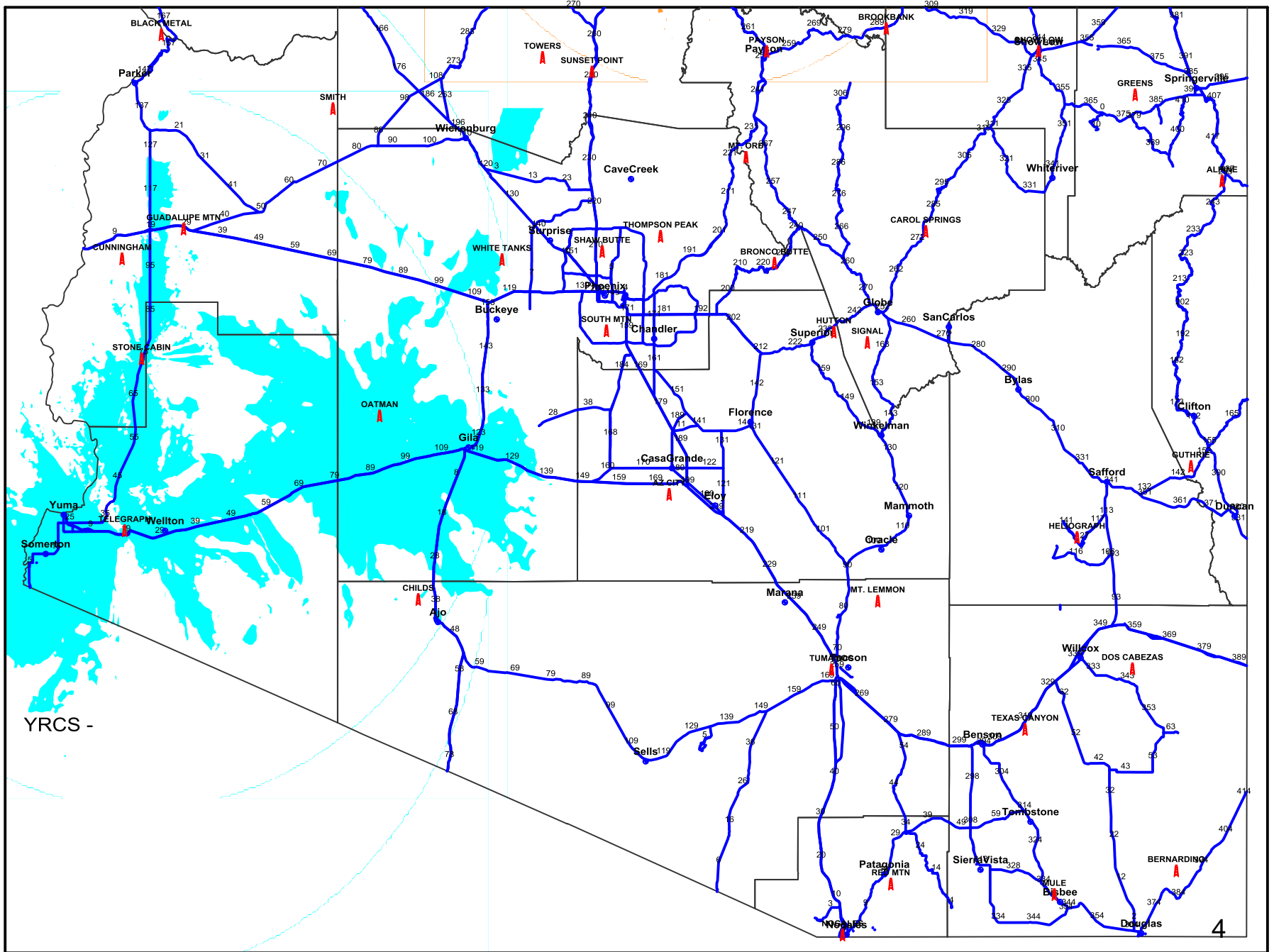
**Mr. Greg Wilkinson**  
City Administrator  
City of Yuma

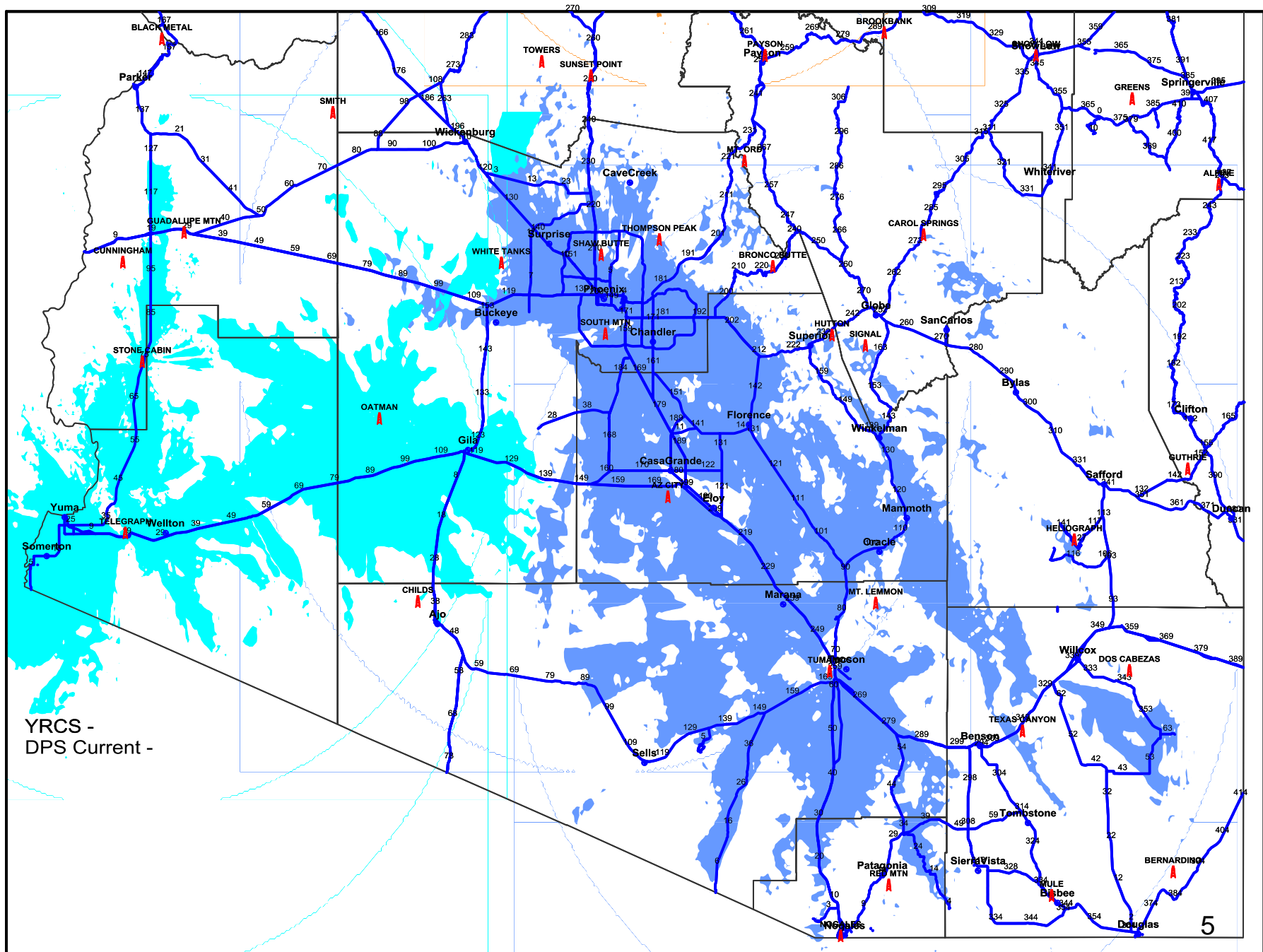
# *THE TECHNOLOGY*

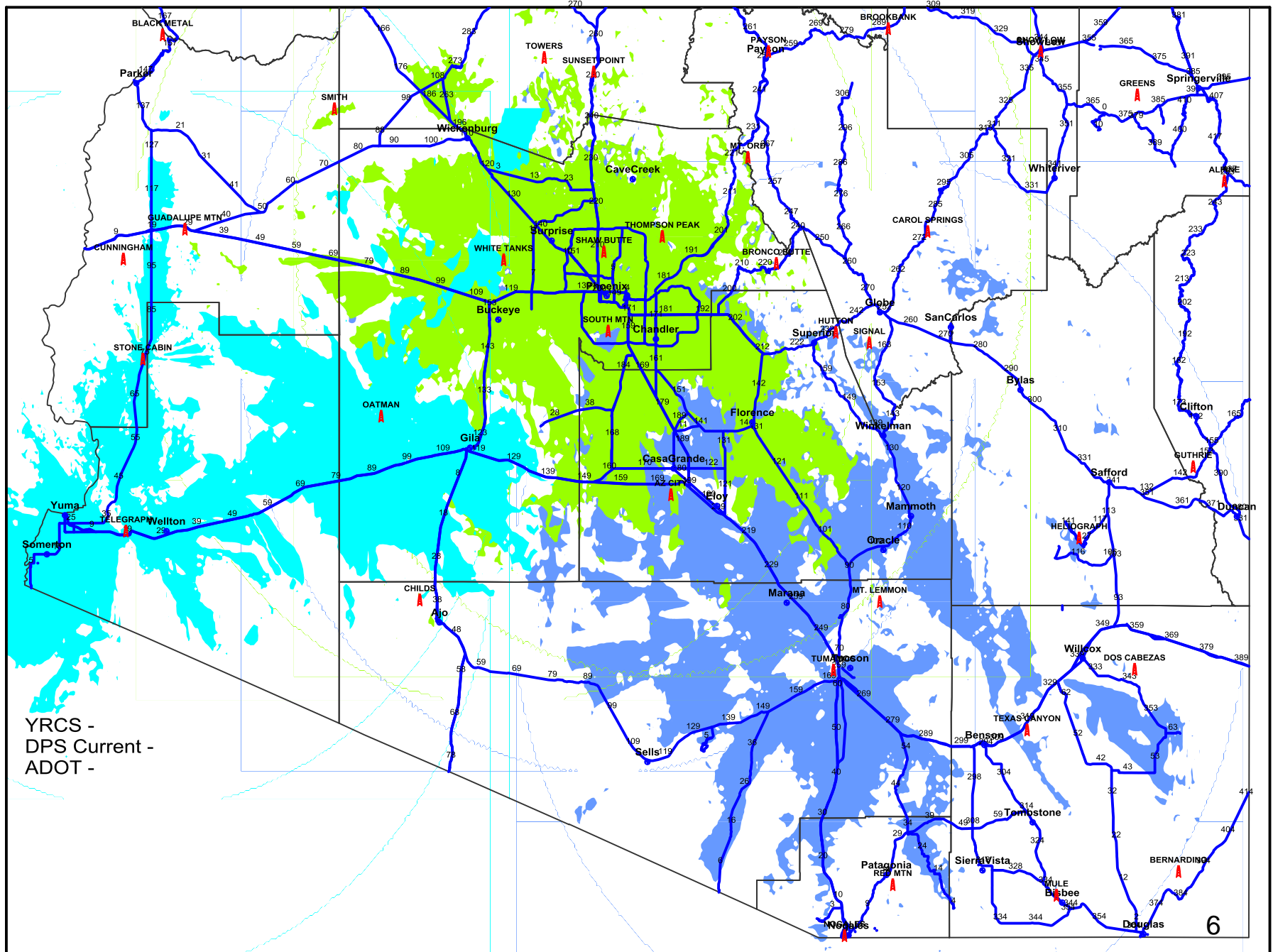
- **Macro Corporation, 2004.**
- **Gartner Group 2005.**
- **Federal Engineering Inc., 2007.**
- **Recommended 700 MHz P25 statewide digital trunked communications system.**
- **PSCC/DPS approved technology standard on April 24, 2007.**

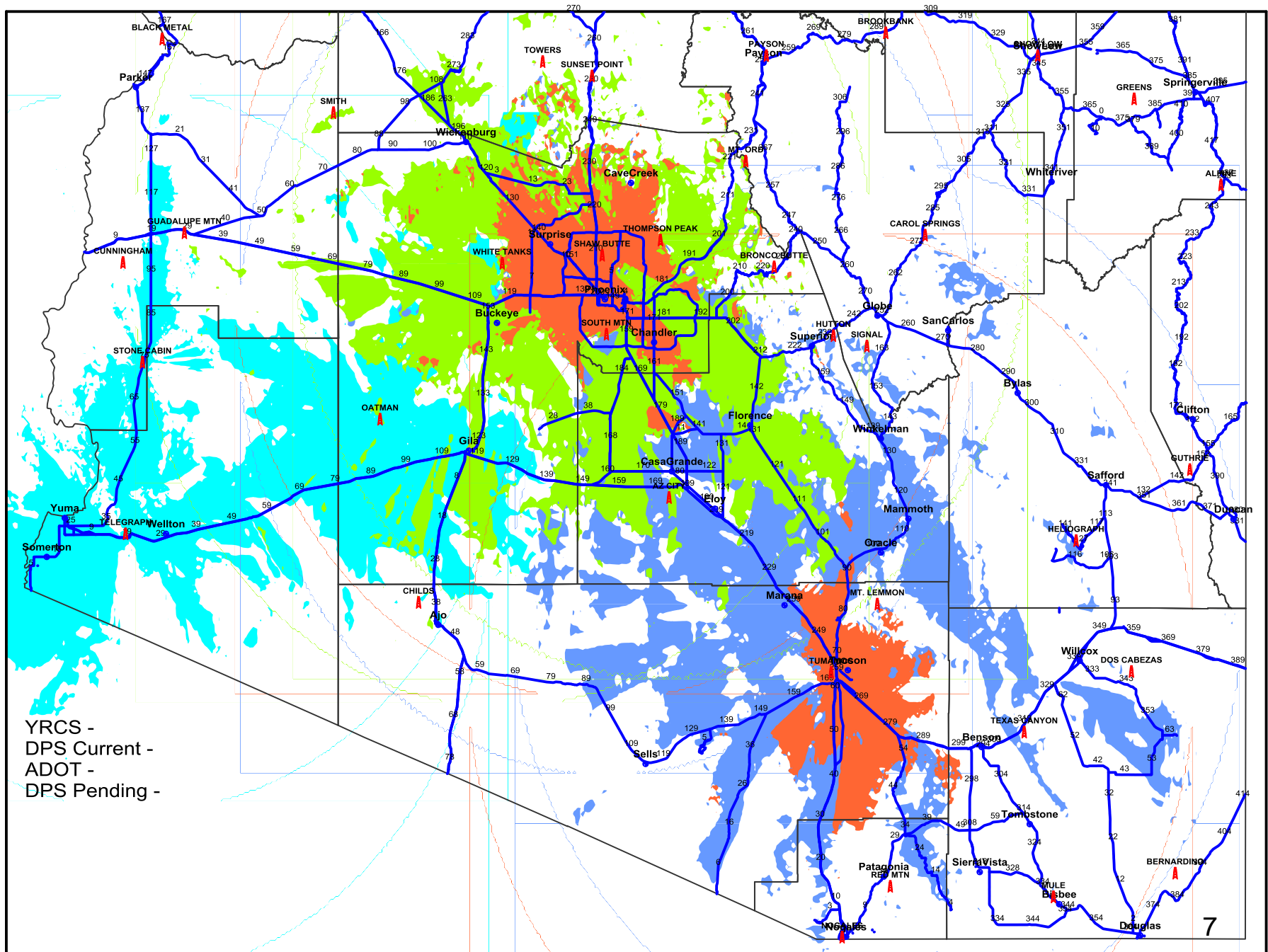
# *THE DIRECTION*

- **End of life ADOT 800 Mhz Trunk System.**
- **Leverage the use of an existing systems.**
- **A design that will enhance operability.**
- **Build upon previous work/projects.**
- **Provide the most coverage over large population area and meet FCC's first construction deadline.**

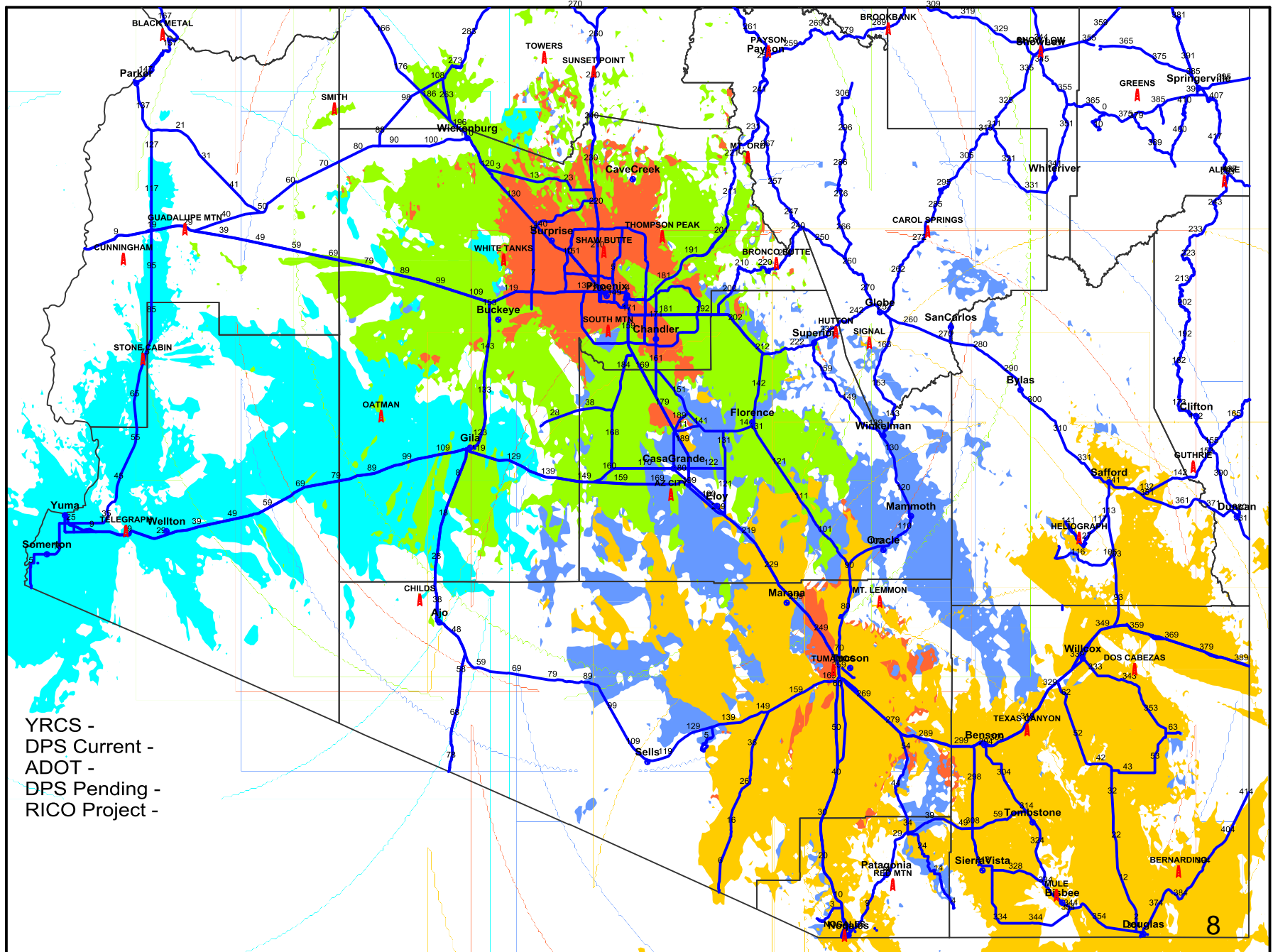














# Multi-Band Portable Radios

**Harris Unity XG-100**



**Motorola APX 7000**



***Funding provided by:***



**AZDOHS**

**ARIZONA DEPARTMENT  
OF HOMELAND SECURITY**



# *700 MHz P25 Trunking*

- **ADOT transitioning to system for operability and DPS interoperability.**
- **DPS GIITEM task force for operability, additional capacity, interoperability with Highway Patrol UHF.**
- **DPS Highway Patrol interoperability with Yuma Police and Sheriff.**
- **DPS Criminal Investigation Division for additional capacity and Advanced Encryption Standards.**

# Yuma Regional Communications System



**Mr. Greg Wilkinson**  
City Administrator  
City of Yuma

# **Yuma Regional Communications System**



BIDP Grant Award Overview

# Overview and Objectives

- Project Title
  - Yuma Full Voice and Data Integration Demonstration Project
- Objectives
  - Improve day-to-day interoperable emergency communications between local, tribal, State, and Federal entities, and international partners along and across international borders for both voice and data
  - Improve interoperable emergency communications between emergency response providers responding to threats and natural disasters on the border

# Partner Entities

- City of Yuma – Police and Fire Departments
- Yuma County Sheriff
- Yuma County Office of Emergency Management
- Cocopah – Police Department
- City of San Luis – Police and Fire Departments
- City of Somerton/Cocopah Tribal Fire Department
- Quechan Tribal Police Department
- Town of Wellton
- Arizona Department of Public Safety
- Arizona Department of Transportation
- Arizona Department of Emergency Management
- Marine Corps Air Station
- US Army Yuma Proving Grounds
- US Customs and Border Patrol – Yuma Sector
- US Marshall's Office – Yuma Arizona
- Alcohol Tobacco and Firearms – Yuma
- Federal Bureau of Investigations – Yuma
- Drug Enforcement Agency – Yuma

# Overall Plan

- Expand
  - P25 Voice radio system
  - CAD/RMS/JMS/MDC Data system to integrate Federal, State, and local agencies
  - Tie in the Arizona State EOC to P25 system
  - Integrate San Luis Sonora Mexico's C4 system
- Expand Microwave and Fiber infrastructure
  - Open MW loop to integrate USCBP and MCAS and utilize existing YPG fiber for voice and data . USCBP also a “get ready” for video and “Secure Cross Border Network” from Mexico. Pass to the State EOC



# Proposed Equipment Allocation

Agency	USCBP	US Marshall	MCAS	AzDPS	AZ State	YPG
<i>IP P25 Radio Console</i>	1	0	0	1		1
Data Interop Console	1	1	1	1		1
Mobile Data Computer	1	0	4	1		3
Microwave link	1	0	1			
Border Enforcement vehicle	0	0	0			
P25 800/700MHz radio	0	0	0		3	
VHF Repeater						
CCGW's						

© 2015 Pearson Education, Inc. or its affiliate(s). All rights reserved.

[illegible]

# Project Outcome

- Demonstrate that Federal, State, Tribal, and Local Public Safety agencies can co-exist, interoperate, and provide for seamless interoperability for voice and data systems
- Encompasses local, state, tribal, federal, interstate (California) and international (Mexico) integration and interoperability
- Provides the latest in state-of-the-art technology while leveraging current standards

# **“The Total Vision Approach”**

---

for the future of interoperability

# Department of Energy and Chrysler Grant

The purpose of the project, totaling \$48 million from DOE and \$49.4 million from Chrysler Group, is to help develop vehicles that will be cost-efficient for consumers, satisfy safety concerns of daily travel without recharging, and reduce dependence on foreign oil.



# Questions?

---



**Mr. Greg Wilkinson**  
City of Yuma



**Mr. Kevin Rogers**  
Arizona DPS